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In the claims:

Please amend the claims as follows (for the convenience of the Examiner, all claims, whether or not amended, are presented below):

1. A method for regulating expression of a *tet* operator-linked gene in a cell of a subject, comprising:

introducing into the cell a first nucleic acid molecule comprising the tet operator-linked gene;

introducing into the cell a second nucleic acid molecule encoding a tetracycline-controllable transactivator (tTA), the tTA comprising a Tet repressor operably linked to a polypeptide which directly or indirectly activates transcription in eucaryotic cells;

wherein the first and second nucleic acid molecules are not covalently linked to each other; and

modulating the concentration of a tetracycline, or analogue thereof, in the subject.

18. A method for regulating expression of a *tet* operator-linked gene in a cell of a subject, comprising:

introducing into the cell a single nucleic acid molecule comprising the *tet* operator-linked gene and also encoding a tetracycline-controllable transactivator (tTA), the tTA comprising a Tet repressor operably linked to a polypeptide which directly or indirectly activates transcription in eucaryotic cells; and

modulating the concentration of a tetracycline, or analogue thereof, in the subject.

- 2. The method of claim 1 or 18, wherein the Tet repressor of the tTA is a Tn10-derived Tet repressor.
- 3. The method of claim 1 or 18, wherein the polypeptide of the tTA which directly or indirectly activates transcription in eucaryotic cells is from herpes simplex virus virion protein 16.
- 4. (Amended) The method of claim 18, wherein the nucleic acid molecule encoding the tTA is integrated randomly in a chromosome of the cell.

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cont

- 5. (Amended) The method of claim 18, wherein the nucleic acid molecule encoding the tTA is integrated at a predetermined location within a chromosome of the cell.
- 6. The method of claim 1 or 18, wherein the nucleic acid molecule encoding the tTA is introduced into the cell ex vivo, the method further comprising administering the cell to the subject.
- 9. The method of claim 1 or 18, wherein the tetracycline analogue is anhydrotetracycline, doxycycline or cyanotetracycline.
- 10. A method for regulating expression of a *tet* operator-linked gene in a cell of a subject, comprising:

obtaining the cell from the subject;

introducing into the cell a first nucleic acid molecule comprising the tet operator-linked gene;

introducing into the cell a second nucleic acid molecule encoding a tetracycline-controllable transactivator (tTA), the tTA comprising a Tet repressor operably linked to a polypeptide which directly or indirectly activates transcription in eucaryotic cells, to form a modified cell;

wherein the first and second nucleic acid molecules are not covalently linked to each other;

administering the modified cell to the subject; and modulating the concentration of a tetracycline, or analogue thereof, in the subject.

19. A method for regulating expression of a *tet* operator-linked gene in a cell of a subject, comprising:

obtaining the cell from the subject;

introducing into the cell a single nucleic acid molecule comprising the *tet* operator-linked gene and also encoding a tetracycline-controllable transactivator (tTA), the tTA comprising a Tet repressor operably linked to a polypeptide which directly or indirectly activates transcription in eucaryotic cells, to form a modified cell;

administering the modified cell to the subject; and modulating the concentration of a tetracycline, or analogue thereof, in the subject.

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- 11. The method of claim 10 or 19, wherein the Tet repressor of the tTA is a Tn10-derived Tet repressor.
- 12. The method of claim 10 or 19, wherein the polypeptide of the tTA which directly or indirectly activates transcription in eucaryotic cells is from herpes simplex virus virion protein 16.
- 13. The method of claim 10 or 19, wherein the nucleic acid molecule encoding the tTA is integrated randomly in a chromosome of the cell.
- 14. The method of claim 10 or 19, wherein the nucleic acid molecule encoding the tTA is integrated by homologous recombination at a predetermined location within a chromosome of the cell.
- 17. The method of claim 10 or 19, wherein the tetracycline analogue is anhydrotetracycline, doxycycline or cyanotetracycline.